

Topic Tests for AS / A Level Year 1 AQA

Microeconomics

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Contents

| Thank You for Choosing ZigZag Education | ii |
|---|-----|
| Teacher Feedback Opportunity | iii |
| Terms and Conditions of Use | iv |
| Teacher's Introduction | 1 |
| Mark Breakdown Test-by-test | 2 |
| Topic Tests | 3 |
| 4.1.1 Economic Methodology and the Economic Problem | |
| 4.1.3.1–2: Demand | 5 |
| 4.1.3.3–4: Supply | 6 |
| 4.1.3.5–6: Price Determination in a Competitive Market | 8 |
| 4.1.4 Production, Costs and Revenue | 10 |
| 4.1.5 Competitive and Concentrated Markets | 12 |
| 4.1.8.1–3 The Market Mechanism | 13 |
| 4.1.8.4–6 Positive and Negative Externalities in Consumption and Production | 15 |
| 4.1.8.9–10 Government Intervention and Government Failure | 16 |
| Answers | 17 |
| 4.1.1 Economic Methodology and the Economic Problem | 17 |
| 4.1.3.1–2 Demand | 20 |
| 4.1.3.3–4 Supply | 23 |
| 4.1.3.5–6 Price Determination in a Competitive Market | |
| 4.1.4 Production, Costs and Revenue | |
| 4.1.5 Competitive and Concentrated Markets | 31 |
| 4.1.8.1–3 The Market Mechanism | |
| 4.1.8.4–6 Positive and Negative Externalities in Consumption and Production | 37 |
| 4.1.8.9–10 Government Intervention and Government Failure | 40 |

Teacher's Introduction

This resource consists of a set of Topic Tests that have been written to support the teaching of A Level AQA Year 1 Microeconomics. It allows teachers and students to check their understanding and consolidate knowledge of each part of the AQA specification. In each Topic Test there is a mixture of numerical, multiple-choice, short-answer and essaystyle questions of a variety of different difficulties. There are 9 Topic Tests in this resource, following the topics of the A Level specifications.

Importantly, each Topic Test is accompanied by a set of detailed answers that could be handed out to students as a basis for 'model' answers in the examination. Note that although the Topic Test questions aren't always in exam format, the questions within have been written carefully with the intention of testing the range of Assessment Objectives and often borrow aspects that are similar to those in the exam.

Most of the case studies in the Topic Tests include up-to-date economic data and scenarios that should place economic theory in recent history, enrich students' general knowledge of the subject, and prepare students for the Data Response aspects of the examination. Moreover, the resource also includes plenty of opportunities for students to practise the Quantitative Skills outlined in the Appendix of the AQA specification.

Most Topic Tests contain 30–40 marks worth of questions, although some tests are shorter to cover each specification topic appropriately according to its scope. It is intended that the longer Topic Tests will take about one hour to complete and should be presented to students *after* teaching the parts of the specification that are to be tested. However, the Topic Tests could also be given to students as homework in order to consolidate their knowledge outside of the classroom, or certain aspects could be used as a supplement to in-class learning.

It is important to note that this resource should be used as a complement to other resources such as textbooks and practice exam papers, and not in isolation. These Topic Tests include plenty of explanation of the theory in the mark scheme, but students should be encouraged to access information as widely as possible.

Terminology note

Where the AQA specification used specific terminology we have followed their example. However, there are some terms that students may not have necessarily come across:

- Ceteris paribus, the Latin term meaning 'all other things being equal', we have judged to be implied by the specification, and worth testing at this level.
- The AQA specification refers to 'production possibility diagrams' and 'boundaries'. Here we have used the term 'production possibility curve' (students may also come across 'frontier').
- The answers occasionally refer to MPB, MSC, MPC, etc. matching these to D and S curves where appropriate. This is beyond the AS specification, so if you are teaching the AS only, or teaching the A Level in a co-teachable order, and you are giving these answers out for self-marking, please make sure students are aware that the concept of the margin is only on the A Level specification.

It is hoped that this resource, as well as offering support for teaching the essential elements of the AQA microeconomics specification, will help students fully prepare for their A Level examinations. The economic environment is constantly in flux, and full of fascinating current issues. This resource attempts to share some of these current issues as a basis for teaching in the most interesting way possible, meanwhile encouraging further study from the next generation of Economists!

Happy teaching! October 2019

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Mark Breakdown Test-by-test

| Topic Test |
|------------|
| 4.1.1 |
| 4.1.3.1–2 |
| 4.1.3.3–4 |
| 4.1.3.5–6 |
| 4.1.4 |
| 4250 |
| 791.8.1-3 |
| 4.1.8.4–6 |
| 4.1.8.8-9 |





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4.1.5 Competitive and Concentrated Markets

- 1. In Economics, we typically assume firms are aiming to maximise profits. Explamaximisation objective and why a firm might choose that objective.
- 2. Explain what is meant by a perfectly competitive market.
- 3. Explain what is meant by 'barriers to entral.
- 4. Table 1 shows data on the result of the r



Table 1

| Supermarket | Market Share |
|-------------|--------------|
| Tesco | 27.6% |
| Sainsbury's | 16.1% |
| Asda | 15.7% |
| Morrisons | 10.4% |
| Co-op | 6.1% |
| Aldi | 6.8% |

Calculate the 3-firm concentration ratio.

It is fairly rare to find a market that is a 'pure' monopoly cording to the strict frequently we hear of firms exerting their 'monopoly yell. In August 2015, Tu acquired the rights to the drug Daraprim, which is pure times used to treat malar price of the drug from \$13.50 to \$5.50 multiple to the detriment of healthcare syst patients internationally.

- 5 Explain Education countries that influence the degree of monopoly power in an indus
- 6. Evaluate **one** advantage and **one** disadvantage of a monopoly.



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4.1.8.1-3 The Market Mechanism

- 1. Explain the role of the price mechanism in a market-based economy.
- 2. Explain one advantage and one disadvantage of the price mechanism.
- 3. What is meant by market failure?
- 4. If market failure occurs, will project on the efficient or inefficient? Why?
- 5. Market failere
 - TI 19. -p. Juction of certain products.
 - B Theducation of certain products.
 - C The over-consumption of some products and under-consumption of oth
 - **D** All of the above.

Tourists to the UK's national parks tend to leave more than just their footprints in intentionally or accidentally, leave behind all sorts of waste – from plastic food nappies. Litter is unsightly, and it ruins other people's enjoyment of the beautiful to offer. It's easy to think that a single piece of litter is not a significant problem, quickly turn our national parks into large-scale rubbish dumps.

- 6. Illustrate, and explain, how leaving litter behind can cause a market failure.
- 7. Explain the difference between complete and partial market failure.
- 8. What is meant by a 'public good'?
- 9. Identify which of the f(") are public goods.

| Zog Zog | Cinemas |
|------------|-------------|
| (b) | Healthcare |
| (c) | Air |
| (d) | Bananas |
| (e) | Lighthouses |
| (f) | Timber |
| (g) | Fireworks |
| (h) | Electricity |

- 10. 'Excludability' refers to which of the following concepts?
 - A It is possible to prevent people that haven't paid for the good from consto it.
 - B It is impossible for two individuals on the good simultaneously.
 - C It is possible to reject the in the good when it is provided to
 - D It is possible for to a " wals to consume the good simultaneously.
- 11. What i
- 79 t by the non-rivalry of a public good?
- 12. (a) If something is non-rejectable, what is true of this type of good?
 - (b) State **two** examples of a good that is non-rejectable.

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- 13. Quasi-public goods meaning 'almost' public goods are goods that are eith or non-rivalrous but excludable.
 - (a) Identify and explain an example of each type of quasi-public good.
 - (b) Do you think market failure could still occur in the case of a quasi-public
- 14. Explain, using one or more examples, how technologinal hange can alter the

It should be of no surprise that it is a needed is an important talking point in the point in th

15. Evaluate the case for government provision of a national defence system.



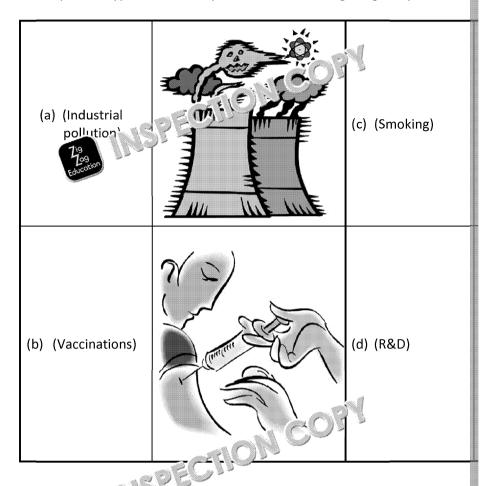


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4.1.8.4-6 Positive and Negative Externalities in Consum

1. Identify which type of externality each of the following images represents.



Imagine plant. It invests heavily in training the local workforce in modern provides additional voluntary training for those that wish to specialise in highly s Samsung's investment in education and training has advantages for other manufathey're able to employ pre-trained workers from Samsung. Moreover, Samsung training has far-reaching benefits for society as a whole because a more producto economic growth and social cohesion.

- 2. Using information from the extract above and a diagram, explain the external
- 3. Explain the reason why the classification of a 'merit' good depends on a value
- 4. Using information from the extract and a suitable diagram, evaluate whether considered a demerit good.
- 5. (a) What is meant by a 'demerit go,'
 - (b) What role does informs on the play in existence of demerit goods?
- 6. 'Homo ne' economic human', is traditionally assumed to make perfect to ation.

Explain, using an appropriate example, how imperfect information can affect

- 7. (a) Explain what is meant by geographical immobility of labour.
 - (b) Explain how immobility of factors of production can lead to market failure

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4.1.8.9-10 Government Intervention and Government

- 1. What is the rationale for government intervention in markets?
- 2. Identify a potential government intervention method that could be effective following scenarios.

| | Scenario |
|--------|--|
| (a) | Fossil-fuel-powered auto recipied were a necessity in past decades that means electric pc whicles are affordable and less environment fossilia comments. However, less people are purchasing an ernment had hoped. |
| (b) | astructure is essential to the functioning of any economy. With cransportation networks, we would only be able to purchase things incredibly close to one's home. However, it is difficult for private fir providing certain transportation networks because they often functions. |
| (c) | Agricultural commodities tend to fluctuate in price according to the much of a crop is harvested, there will be an excess of supply and crop would be less than expected, and vice versa. However, farme future prices of their crops leads them to delay investments that |
| (d) | In the second half of the twentieth century, many Asian economic international trade and have seen dramatic increases in their rate although the macroeconomy is generally performing well in these workers are being paid nominal wages for their labour. In Banglad factory workers take home about £25 per month, but their living £45 per month. |
| (e) | Weapons are instruments of death. While "horally acceptable access to weapons, weapons in the "a to "the wrong people are 1966, Charles Whitman climber to "the op of the University of Texaim at innocent university of Since and there have been numerous high-school across to "the open access to "the open ac |
| (f) Es | ns. Jers, unaware of the serious health risks of consuming agri- n treated with synthetic pesticides, have been over-consuming contain carcinogens and cancer rates are increasing in the UK. |

Pollution has reached a record high in the UK. The UK government feels that ther renewable energy sources. Households could benefit from installing solar panels could bring down the cost of their electricity bills in an environment where the trocontinually increasing tariffs. However, there are external benefits of households including reductions in pollution and sustainability for future generations. The UK give cash-in-hand subsidies for households that wish to install solar panels on the

- 3. (a) Illustrate the market failure that is outlined in the extract.
 - (b) Analyse the likely effect of the government's interchtion on the market
 - (c) What is the opportunity cost of the gove reliable intervention?
 - (d) Identify an alternative way the government could intervene to increase energy sources.
- 4. 'Alcoholism har a seriects on society. Therefore, the government should price pri

Evaluate effectiveness of minimum unit prices as a method to counteract

- 5. What is meant by 'government failure'?
- 6. Identify and explain three possible causes of government failure.

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Answers

4.1.1 Economic Methodology and the Economic Probler

1. A 'social' science is an academic discipline which focuses on the scientific study of

[2 marks for a clear explanation of what is meant by a 's science'; 1 mark for a which conveys the general meaning]

2. A 'natural' scientist is able to conduct experiments in order to test their hypothes unable to conduct experiments in order to the analysis of the analysis

[2 mark lear explanation of the difference between an economist and a natuexplanation that is less clear but which conveys the general meaning]

3. **A** – Only 'A' is an example of a positive statement because it is a testable statement involve some value judgements about how things ought to be and so are normatically an area of the contraction.

[1 mark for correct answer]

4. The government's policy decision to pursue an inflation rate of 2.0% is an examp statement and involves an implicit value judgement of what the UK's inflation rate

[2 marks for a clear explanation of how the government's policy involves a value just explanation that is less clear but which conveys the general meaning]

5. **B** – The central purpose of economic activity is the production of goods and serve and needs. Note that economics *is* concerned about the min misation of excess preferences.) but it is not the central purpose of economics.

[1 mark for correct response]

- 6. 1. What should be a find for
 - 2. Howard Loduced?
 - 3. For 1 should it be produced?

[1 mark per correct response]

7. (a) The four factors of production are: *land*, *labour*, *capital*, and *entrepreneursh*

[1 mark for each correctly identified factor of production]

(b) Land's reward is rent – the return for ownership of land and natural resource the return on time invested in productive activity. Capital's reward is interestinally, entrepreneurships reward is profit – the return for risk.

 $[1\ mark\ for\ each\ correctly\ identified\ reward\ to\ the\ factors\ of\ production]$

8. The 'economic problem' refers to the situation that aris in which an economy's therefore, insufficient in being able to satisfy the minimum problem of wants of economic problem of 'scarcity'.

[2 marks for clear explain fire BEP – answer should include the idea of unlimersources whether the lates of a specific property of the second of the lates of the

9. **B** – Eco make assumptions in order to simplify their models. It would be all the different factors that could affect an economic model, and, even if they countenant change. Therefore, instead of taking into account everything, economist that are *generally* true, and can build models of the economy that are true on ave

[1 mark for correct response]

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10. 'Ceteris paribus' is a Latin phrase that translates as 'other things being equal' or 'constant'. It would be almost impossible for economists to analyse a specific charmacroeconomic environment without having to consider that other factors could Therefore, in order to isolate the effect of a single factor, economists tend to adop – e.g. if investment increases, aggregate demand will increase, ceteris paribus.

[2 marks for a clear explanation of the significance of the ceteris paribus assumption for an explanation that is less clear but which conveys the second real meaning]

11. Scarcity forces economic agents to me'cle cause the nature of having finset of wants can be satisfied. Note that using our resources for the consumption using those same resources are the consume. Individuals, therefore, must prioritis import the first – often their 'needs' – and then make choices about which scarcity the state than people would never be forced to make choices about personal consumes wouldn't exist as a subject.

[2 marks for a clear explanation of how scarcity forces choices to be made – i.e. inalimited set of resources]

12. An 'opportunity cost' is the value of the *next-best alternative forgone* arising from course of action. Whenever we decide to pursue some action– e.g. studying Econthe benefits that would have arisen from all other possible decisions – e.g. studying Maths at university, but also other options such as seeking employment instead. a decision is <u>only</u> the benefit that would have arisen from the 'next-best' option.

[2 marks for clear definition of an opportunity cost – the idea of a value placed on central to the definition, and the idea that all decisions involve a trade-off but only to an opportunity cost]

13. The production possibility curve (PPC), or frontier (P), is a graphical representation of goods and services (e.g. combination of goods, apples and within a given time period by empirical figure conomy's fixed factors of productions.

[2 marks for any co, At Jennition of the PPC]

14. The PP whenever the productive potential of an economy improves. If a nacould increase the amount of output given an economy's inputs, we would see the would hold for investments in similar capital goods. Likewise, the PPC could shift increase – e.g. if a large oil reserve was found. However, anything that damages the economy leads the PPC to shift inward – e.g. a civil war, or natural disaster.

[1 mark for identifying factors causing an outward shift in the PPC – anything that of an economy; 1 mark for identifying factors causing the PPC to shift inward – any potential of an economy]

15. A, B, and C are all productively efficient because they are all situated on the product Remember, the PPF shows the combination of two products that could be product are *fully* and *efficiently* employed. Therefore, A, B and C are productively efficient something is allocatively efficient depends ultimately on whether the combination people's preferences. Thus, either A, B or C could be all the left efficient, but this judgements about the desirability of the combination of two products that could be all the left efficient, but this judgements about the desirability of the combination of two products that could be producted as a left efficient of the left efficient efficient of the left efficient effic

[2 marks for a clear explanation of the ence between productive and allocative for an explanation that it is not suit which conveys the general meaning]

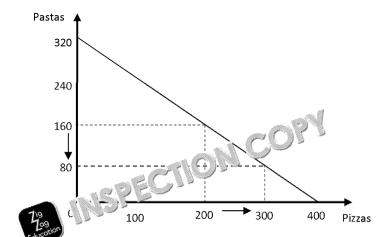


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16. (a)



[1 mark for correctly labelled axes and values, 1 mark for linear PPC, and 1 more production trade-off is not one-for-one. Note that students can label the y-axis vice versa), but the slope must show the relative productive capacity in favour

- (b) (i) Scarcity is represented via any point *outside* of the PPC for this economic represents the production combinations that would be possible given the production, and so points outside of this space represent the unlimited given limited resources.
 - (ii) Productive efficiency is represented via any point *along* the PPC this utilising its available resources along this curve, it would not be possib the curve shows the 'maximum combinations' of output.
 - (iii) Inefficiency is represented via any point *inside* the PPC this is because possible to produce more of one good without say rificing any of the other resources are being inefficiently under-u*.

[1 mark each for correctly if an) g these concepts on the PPC]

(c) 80 pastas – ratical procession of producing an additional 100 pizzas is 80 pastas.

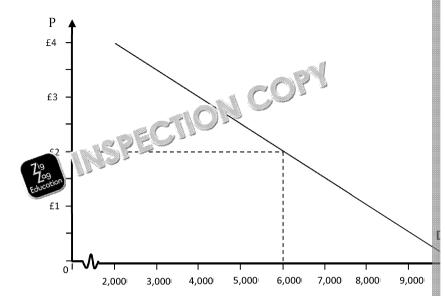
[1 mark for correct answer]

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1. (a)



[1 mark for correctly labelled axes and demand curve; 1 mark for downward-slop passing through the coordinates in Table 1]

(b) % Change in
$$Q_D = \frac{Original Q_D}{New Q_D} \times 100 = \frac{4,000}{8,000} \times 100 = 50\%$$

[1 mark for correct answer; 1 additional mark for working]

2. Intuitively, it seems obvious that demand should be do in ord-sloping. Whenever would expect the quantity demand of such an it of low, and vice versa. Hen between price and quantity of product which is useful as in the price of an item the log of the would expect demand to be less at high 'substitution' effect it is as in the price of a certain good would encourage comproduct is solven to a sign of the price of a certain good would encourage comproduct its price.

[1 mark stating each effect that explains the inverse relationship between price substitution effect) and 1 mark for explanation of each]

3. Possible factors shifting the demand curve for Kopi Luwak coffee could include a (it is likely to be a *normal* good), an increase in the price of a substitute good (e.g. the price of a complement good (e.g. milk), and a general shift in consumer prefe (because of advertising, due to a health trend, etc.).

[Maximum 3 marks. 1 mark for each suitable factor that could shift the demand cut shift in either direction are appropriate. Do not award marks for changes in the pri

4. (a) Price elasticity of demand (PED) is the sensitivity, or responsiveness, of demonstrates are service's price level.

[2 marks for a clear explanation of PED: 1 ar. fo in explanation that is less general meaning]

(b) PED =
$$\frac{\% \text{ Change in the lite of the Price}}{\% \text{ Change in the lite of the Price}}$$

[2] for correct formula for PED; award only 1 mark if formula is defined per decage change; no marks if numerator and denominator are opposite to v

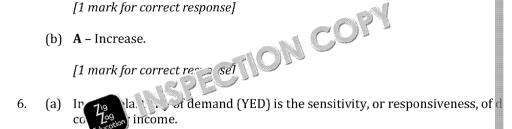


5. (a)
$$C - PED = \frac{\% \text{ Change in the Quantity Demanded}}{\% \text{ Change in the Price}} = \frac{-10\%}{40\%} = -0.25$$

Therefore, the PED of petrol is inelastic. PED is inelastic if the calculated val absolute terms), it is perfectly inelastic if PED=0. Conversely, PED is elastic PED=1.

[1 mark for correct response]

(b) A - Increase.



[2 marks for a clear explanation of YED; 1 mark for an explanation that is less general meaning]

(b) YED =
$$\frac{\% \text{ Change in the Quantity Demanded}}{\% \text{ Change in Income}} = \frac{-60\%}{15\%} = -4.00$$
 (i.e. Spam is an 'inferior)

[1 mark for correct answer; 1 mark for showing working]

(a) Cross elasticity of demand (XED) is the sensitivity, or responsiveness, of der 7. in response to a change in some other good or service's price level.

> [2 marks for a clear explanation of XED; 1 mark for an explanation that is less general meaning]

(b)
$$XED = \frac{\% \text{ Change in the Quantity Demanded of Good X}}{\% \text{ Change in the Price of Good Y}}$$

[2 marks for correct formula for Ell and only 1 mark if formula is defined percentage change; no a rks the amerator and denominator are opposite to

ls 🕦 🚅 e goods whose YED is negative – that is, when incomes r y less on the good. Inferior goods have YED < 0. Inferior goods, for ded food. 'Normal' goods are goods that show a positive relations in consumption – most goods tend to be described as normal goods. Normal goods Thus, normal goods have a YED > 0.

[Up to 2 marks for an accurate description of an inferior and a normal good; up to these goods - e.g. by using values of YED, examples, etc.]

A – Coal and BBQs are said to be complements if they have an XED of -0.54. This price of coal leads to a decrease in the consumption of BBQs. Note that this relati is an option for the fuel for a BBQ.

[1 mark for correct response]



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Elastic Unit Elastic D = ARQ Q

scicity of demand varies along a straight line demand cur half of nal a curve the price is high, while the quantity demanded low, so a ms, but the associated change in quantity demanded would be larg upper hair of the demand curve is elastic, and the bottom half inelastic. Note that curve the price elasticity of demand will be unit-elastic.

If demand is price elastic, the firm can reduce its price but enjoy a disproportion increase its revenue. If demand is price inelastic, the firm can increase its price a increase its revenue. However, once demand is unit elastic, an increase or decrea decrease total revenue. Hence, total revenue is maximised when price and quant unit elasticity. Notice that this is also the point at which marginal revenue is zero would lead to *negative* marginal revenue and so total revenue would decrease, at point would also reduce total revenue because the marginal revenue of increasing

[Maximum 4 marks. 2 marks for explaining the relationship between a firm's PED a relationship with a diagram.

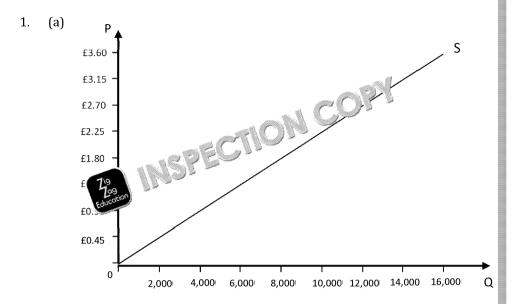
11. PED is influenced by...

- Availability of Substitutes: If there are suitable substitutes available for a product shift their consumption away from it and in the relatively cheaper good, the price increase. However, the soft it is of elasticity will depend on how close Necessity: If a product shift them an increase in the price of the item the demand. The soft is that are not thought of as necessities (e.g. forements).
- hanges in price because there are alternatives available.
- n come Devoted to the Good: If the cost of an item constitutes a high penditure, then a small increase in its price is likely to have a large effe income effect of consumption - that is, items that take up a larger share of our d
- Time Period: In the short-run, demand tends to be inelastic because people ha commitments to consumption, and so changes in price don't tend to affect der people have time to change their patterns of consumption in response to price

[1 mark each for identify an appropriate factor; 1 mark each for suitable explanation



4.1.3.3-4 Supply



[1 mark for correctly labelled axes and supply curve; 1 mark for upward-sloping passing through the coordinates in Table 1]

(b) Supply is upward-sloping and directly proportional to price, meaning that the between price and quantity.

[1 mark for correct observation]

2. It is suggested that supply is upward-sloping for the convergence when the implies that it is more profitable for a business of the products. Therefore, first expand their output – that is, they suppose the market when the price is his production expands the marginal production tends to increase because of Therefore, at greater the put, prices need to be higher to mitigate the higher than the production tends to increase because of the convergence of the converg

[1 mark Forceach ntifying each reason; 1 mark for each explanation]

3.

| (a) | Assuming that the West Country orchard's business objective is profichanges its cost structure will have an effect on the supply curve. Here that is more efficient than the manual human labour used in the past this technology is to reduce the unit costs of production by reducing curve for the West Country orchard shifts rightwards (outwards) – by they are prepared to provide more at any given price. |
|-----|--|
| (b) | Subsidies are grants from the government that are designed to increase a subsidy this essentially offsets their costs of production. Again, this West Country orchard will be able to provide a greater quantity of our orchard's supply curve will shift rightward (outwards). (Note, it shift between the old and new supply curve is the point of the subsidy.) |
| (c) | If the price of pears increases relation to pear switch production to pear should be dust pears are currently more farming technique of a gricultural products are more or less en goods are should be supply (substitutes). Hence, we can expect the price of a competitive good increases. (Note, an evaluation of the production in the short-run.) |
| (d) | Increases in the National Living Wage constitute an increase in the concountry orchard. Even if this firm doesn't hire anybody that is earning increase in it causes upward pressure on <i>all</i> wages. Whenever a busing supply less at any given price because it is less profitable to do so the Country orchard's supply curve would shift inward if this change occurred. |

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If bio-fuel made from by-products of the orchard's production process are fetching a high price, the effect on the orchard's supply curve could go either way. First, they might stop supplying whole apples altogether and supply bio-fuel instead leading to an inward shift of the supply curve. However they might also increase the production of apples and just sell their by-products to firms cre is ambiguous.

| | | Knowledge (3), application (3) and analysis (3) |
|---------|-----|---|
| | 0 | No relevant answer given. |
| Level 1 | 1–3 | A few concepts may be identified correctly, but inconsistently, and with inaccular thought behind the causes and effects. |
| Level 2 | 4–6 | Some knowledge of economic concepts is shown, partially linked to the questi reasoning skills, but may focus too much on one sid , n argument. |
| Level 3 | 7–9 | Knowledge of the economic concepts is yet ac. It to the question at relevant examples. Analysis is we are levant logical, and appropriate for t |
| | | A aluation (6) |
| | 0 | No ever luarit |
| Level 1 | 1–2 | L 7.99 ttempt at evaluation – may be only loosely related to the question, o su Education treasoning. |
| Level 2 | 3–4 | Clear evidence of evaluative comments, though they may be unfairly weighted argument. Reasoning / supporting evidence is provided but may be incompleted. |
| Level 3 | 5–6 | Accurate, balanced evaluative comments are made, supporting a rounded con pertains directly to the question. |

[1 mark for identifying the direction of the shift; 2 additional marks for a strong explanation, or 1 a weaker argument that still conveys the correct meaning]

4. There is a lot of information in the extract that will affect the position of the supply curve in the traditional Californian farmers' produce. First, the price of almonds has incentivised traditional production from row crops to orchards. This is evidenced by the fact that the almond industry's increased from half a million pounds (lbs.) to approximately 2 billion pounds today. Therefore, would be reflected by a *leftward* shift in the traditional market's supply curve as the number of market decreases and shift production to the more profitable almond.

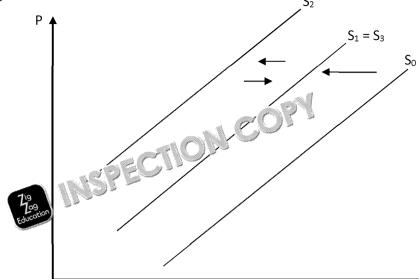
Moreover, there has been a drought in California for the spears. Unfortunately for traditional when there are droughts they don't get allocated a luge 8% of the environment - in allocated a huge 8% of the entire that wis crops must spend more than the speak of the environment allocated a luge 8% of the environment - in the speak of the environm

However, there is a little evidence that these farmers are getting more efficient. Technology reducosts by reducing purchases of excess inputs. This effect could (partially) offset the cost increase because of the Californian drought. Therefore, the adoption of new technology would shift the suright. The overall effect on the position of the supply curve will ultimately depend on whether the benefits of this technology outweigh the cost increases of the Californian drought. In the diagram represents the initial position of supply in the traditional produce marker, S₁ represents the poshave shifted towards almond production, S₂ is the position of the supply curve after the Californ traditional farmers, while S₃ is the movement after technology has been adopted. S₃ could be plathed diagram so long as it moves in the rightward direction – the magnitude of the shift depends judgement. In this case it has been drawn such as if the adoption of technology has completincreases in the price of water.





Graphically:



[2 marks for the diagram, plus 2 additional marks for the linking explanation]

5. (a) Price elasticity of supply (PES) is the sensitivity, or responsiveness, of supple service's price level.

[2 marks for a clear explanation of PES; 1 mark for an explanation that is less general meaning]

(b) PES = $\frac{\% \text{ Change in the Quantity Supply}}{\% \text{ Change in the Price}}$

[2 marks for correct formula for PES; awar of v) ark if formula is defined percentage change; no marks if ny or adenominator are opposite to v

6. A music streaming serving almost perfectly *elastic* in the short-run. This service is set up in the will incur very few additional costs per unit, mainly

[1 mark cooled stic; 1 mark for explanation]

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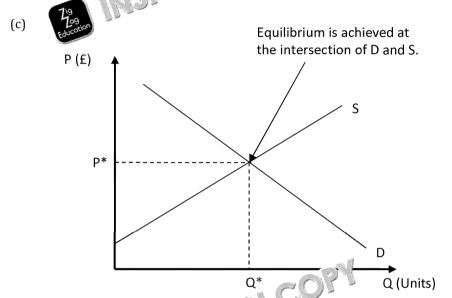
4.1.3.5-6 Price Determination in a Competitive Market

1. (a) A market is a place (real or nominal) where buyers and sellers interact to ex

[1 mark for correct definition]

(b) Market equilibrium refers to the situation in which is market price level is and supply are balanced – that is, at this sirely equals the quantity supplied is or divers.

[1 mark for correct definition of the concept of a most students need 1. 1. terminology]



[2 marks for correctly drawing a land supply diagram (with correct la point of market equilibrity (1.2. hersection of demand and supply); 1 malevels of price and [4.3. here are question of demand and supply); 2 marks for correctly drawing a land supply diagram (with correct la point of marks for correctly drawing a land supply diagram (with correct la point of marks for correctly drawing a land supply diagram (with correct la point of marks for correctly drawing a land supply diagram (with correct la point of marks for correctly drawing a land supply diagram (with correct la point of market equilibrity (1.2. here).

2. **C** – If d de leases – that is, a *leftward* shift – then the equilibrium market p contrac supply (a movement down the supply curve).

[1 mark for correct response]

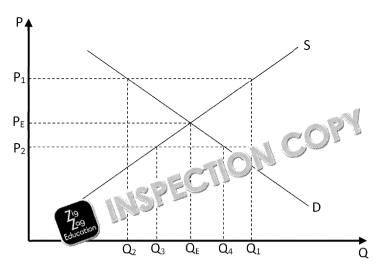
- 3. Initially, a demand shock brought about by a change in preferences for cago over supply at the initial price of P₁, which was originally determined by the
 - However, at P₁ the market price will be below the market-clearing (equilibrished by the intersection of the original supply curve, S₁, and the demain demand, D₂.
 - If demand exceeds supply, there are too many buyers chasing a limited numorder to tempt suppliers to extend their supply, each buyer offers little more Thus, the change in preferences of consumers is transmitted to producers. It there is a shortage of supply, and so know that they can afford to increase the order to improve profitability.
 - This process is continued until eventually t' f ic h bid up to the market-cle extension along the original supp' a... a contraction along the new denecessarily a contraction has because the increase in price will be too they will reduce the harmonic of this is the 'rationing' function of prices. At P₂, balanced at the process of demand over supply that is, the market has

[Ma. day 4 marks. 3–4 marks for a strong, well-supported answer explaining forces will bring about microeconomic equilibrium for cagoules. 1–2 marks for process but lacking detail.]

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Equilibrium is *only* achieved at the intersection of a market's demand and supply which demand exactly equals supply and there is no shortage or excess of either clearing' price. At P_E there is an associated equilibrium quantity of Q_E.

Disequilibrium occurs at *any* price other than the market-clearing price P_E . Diagraprice of P_1 , which is greater than the market-clearing price P_E . At P_1 there will be and too few demanded/sold (Q_2) – i.e. the price is too high. Quantity Q_2Q_1 would too low at P_2 – fewer would be produced (Q_3) than demanded (Q_4) . In this case, if as Q_3Q_4 simply wouldn't be produced.

[Up to 2 marks for accurately drawn diagram(s), including correctly labelled curve disequilibrium; 2 marks for a clear distinction between equilibrium and disequilibrium that is less clear but which conveys the general meaning]

5. If the price of Frisbees is P₁ this implies that the same level less than Q* became at some level less than Q* became at lituitively, this makes some level less than Q* became are high firms tend to supply more in consumers demand a level less than Q* became and substitution effects. Therefore excess the last reduce their price so that more of their product is consumery shows any show the price will stabilise at P* and the quantity at Q* where demand and shows the level less than the price where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where demand and shows the price will stabilise at P* and the quantity at Q* where

[1 mark for recognising that the market for Frisbees is in disequilibrium; 1 mark for to fall to reach its equilibrium rate; 1 mark for explanation. Maximum 3 marks for

- 6. **C** Joint demand refers to goods for which demand is interdependent, such that [1 mark for correct response]
- 7. **A** Composite demand refers to demand for an item that has multiple uses (e.g. oplastic, generate energy, and power motor vehicles, etc., so its demand is a composite for correct response]
- 8. **A** Competitive demand refers to the demand for goods that are in competition (Coca-Cola are notorious competitors, so when the demand or Coca-Cola increase Pepsi we know that this reflects competitive de rad. 1

[1 mark for correct response]

- 10. **A** Joint supply refers to a situation in which a firm produces a number of product production process e.g. a firm might produce a by-product as part of the product

[1 mark for correct response]

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4.1.4 Production, Costs and Revenue

1. Figure 1 shows that there has been a marked difference in levels of productivity hour – between the UK and Ireland from 2010 onwards. While the UK's producti Ireland's productivity has increased dramatically. Ireland's productivity in 2016 The UK's, however, is only 0.9% greater.

Labour productivity has an effect on unit labour of C) by altering the total of labour input. Therefore, Ireland's UIC: 0150 and be lower than the UK's, a labour input more efficiently. Ultility 1 means that Ireland's cost of product average and so this should be price of Irish products relative to the UK that Irish products 1 means than UK products because its costs of productive in international markets than UK firms, are in exposited deteriorate on the basis of this information.

However, an important problem in this analysis is that the effect will depend on and the UK. Since ULC is measured by the total cost of labour divided by total out will depend on the initial total cost of labour. If Ireland's labour cost was significated with then it is not guaranteed that an increase in productivity will make Irish expetted UK's.

[Maximum 4 marks for a clear analysis of the impact on the UK of changing levels of for an adequate analysis, might be underdeveloped or lacking in detail]

2. Specialisation occurs when an individual, business, or nation state concentrates production of a single, or limited number, of good(s).

[1 mark for correct answer]

3. From Table 1 it is immediately obvious that Adam is the etter at producing be fact, if Adam dedicated himself to producing values in a characteristic and make 36 per annum, dedicated his production to cars then in the days produce 36 per annum, which maximum output.

It might see lift was little reason for Adam to trade with Karl given that Adaproduction by Lyans and cars. However, this doesn't mean that there cannot be trade by these individuals.

It's important to note that Adam can only specialise in one *or* the other, and focus that Adam necessarily has to sacrifice some cars. It would be in everyone's best is specialise in the thing that they are better at.

If Adam wants to produce one more car, he must sacrifice one van, and *vice versa* more car he must sacrifice two vans, and to produce one more van he must sacrif opportunity cost (in terms of vans) of producing cars is lower than that of Karl's in car production. Karl should specialise in producing vans because his opportun

If Adam and Karl specialise and trade, they will both be better off – producing 36 situation without specialisation and trade because *more* of both goods can be pro

[1 mark for identifying that both Adam and Karl will off with specialisation for explanation]

4. Adam Smith's observation if the brough specialisation and division of labour if workers hadn't specialisation and division of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a specialisation of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of labour if workers had not be a special of

Special proves productivity because workers are able to practise and be of tasks than *all* tasks. Specialised workers might also develop specialised is also no time wasted moving between different parts of the production process division of labour can allow more to be produced given limited factor inputs had

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It is clear, therefore, that specialisation can address the basic economic problem to satisfy a *greater* number of infinite wants – e.g. specialisation in a pin factory number of the same factor inputs.

However, specialisation could result in lower productivity for a number of reason bored and/or demotivated and their productivity would decline as a result. Secon highly specialised a problem at one stage of production could prevent any further Therefore, specialisation could also exacerbate the basing momic problem if no

[Maximum 4 marks. 1 mark for identifying a ment that specialisation improvaled a clear explanation including arguer of a gainst the first point]

5. Primarily, in a har to promy trade only occurs if there is a double coincidence of if each to primarily use the other individual something that they want. More is a star to be medium of exchange that serves as an intermediary for trade. Which further facilitates trade because in a barter system it wouldn't be possible it for five chickens.

Note that a number of different responses that focus on the functions (and/or chacceptable. However, students must reflect on how these functions facilitate trad

[2 marks for a clear explanation of how money facilitates trade compared to a bart explanation that is less clear but which conveys the general meaning]

6. In economics, the short- and long-run are distinguished in terms of the variability short-run it is said that the quantity of *at least one* factor of production is fixed, ware free to be varied by the firm. However, in the long-run *all* factors of production the long-run firms are more 'flexible' and can adjust to changing market condition production such as labour is more variable than capital – e.g. firms can fairly easi workforce to work overtime, but it's far more difficult to build a new factory in the

[2 marks for a clear distinction between the c'ro For Jong-run; 1 mark for a distinction between the crown of the general meaning]

7. Economies of scale in the process through which increasing the scale of process through the scal

[2 mark to cale; 1 mark for an explanation of economies of scale; 1 mark for an explanation that general meaning]

8. **B** – Internal economies of scale are those economies of scale that are achieved th expansion. Conversely, external economies of scale refers to economies of scale an entire industry and so **A** cannot be correct. **C** and **D** refer to diseconomies of sunit costs as production scales up.

[1 mark for correct answer]

9. Internal economies of scale can include: technical economies of scale; purchasing economies of scale; financial economies of scale; marketing economies of scale; risk network economies of scale.

Purchasing Economies of Scale (EoS), for instance of the Jusinesses being able discounted prices because it is purchasing a classical and administration of the property of the second of the property of the second of the second

[1 mar' 75 en 7 an appropriate cause of internal economies of scale; 1 mark marks] ification of an external economy of scale]

10. (a) External economies of scale are those economies of scale that are achieved the an entire industry, rather than the individual firm, and the expansion tends to

[2 marks for a clear explanation of external economies of scale; 1 mark for an conveys the general meaning]

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(b) Examples of external economies of scale include, but are not limited to: *infrespecific industries* (both transport and communication); provision of research provision of industry-specific training; relocation of suppliers to better service economies (e.g. clustering).

Infrastructure investments, for instance, might be provided by the governmexpanding industry. It should be clear that *all* firms in the industry will be brought about by this investment.

[1 mark for identifying an appropriative Jexternal economies of scale; no marks for identification and its har economy of scale]

11. Primarily, economic case benefits a business because it helps them decrease Firms relief positioned to make higher profits when their costs decrease Firms not be able to invest this profit into research and development and allows them to produce even more efficiently, thus 'multiplying' this effect. Compute same level of economies of scale will lag behind those that are positioned to make investments in advertising and marketing their product too, thus increasing contributing to profit. However, economies of scale could lead to lower quality production process properly.

[Maximum 4 marks. 2 marks each for correctly identifying two benefits of EoS to a reason/explanation of each benefit.]

12. First, note that a firm's average revenue is simply total revenue divided by output interpreted as the (average) price per unit of output. Second, remember that a firm relationship between price and quantity demanded over a range of output. Notice are exactly the same in the table; therefore, a firm's demand and average revenue both show an inverse relationship between price and quantity.

[2 marks for a clear explanation of the relationship for an explanation that is less clear but which covers the general meaning]





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